

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **03221147 A**

(43) Date of publication of application: **30.09.1991**

(51) Int. Cl. **B01J 35/04**

B01D 53/36, B01D 53/36, B01J 23/30, B01J 23/56, B01J 23/64

(21) Application number: **02199348**

(22) Date of filing: **30.07.1990**

(30) Priority: **28.07.1989 DE 89 3924983**
04.09.1989 DE 89 3929297

(71) Applicant: **DEGUSSA AG**

(72) Inventor: **BLUMRICH STEPHAN**
BRAND REINHOLD
ENGLER BERND
HONNEN WOLFGANG
KOBERSTEIN EDGAR

(54) CATALYST AND PROCESS FOR PURIFYING EXHAUST GASES

(57) Abstract:

PURPOSE: To form a catalyst for purifying exhaust gases capable of selectively reducing nitrogen oxides by supporting specific amounts of oxides of Ti, Sn, Be or the like and oxides, sulfates or the like of Fe and V on a honeycomb carrier.

CONSTITUTION: This catalyst for purifying exhaust gases is obtained by molding a honeycomb carrier

consisting of about 2-70 wt.% of CeO₂ and 0-20 wt.% of ZrO₂ as well as optional iron oxides, alkaline earth metal oxides and/or aluminum oxide of the transition column containing rare earth metal oxides and then, supporting catalytic components of Pt and/or Pd, optionally Rh on the honeycomb carrier. The harmful substances such as nitrogen oxides, hydrocarbons, carbon monoxide, ammonia slip from denitrification and sulfur dioxide contained in the exhaust gases are purified by bringing the exhaust gases into contact with the catalyst mentioned above.

COPYRIGHT: (C)1991,JPO